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**2 A class of burst error-correcting array codes (Corresp.)**
*Blaum, M.; van Tilborg, H.; Farrell, P.;*

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**3 MDS array codes for correcting a single criss-cross error**
*Blaum, M.; Bruck, J.;*

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**4 Coding for tolerance and detection of skew in parallel asynchronous communications**
*Blaum, M.; Bruck, J.;*

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*Blaum, M.; Roth, R.M.;*

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*Blaum, M.; Bruck, J.; Rubin, K.; Lenth, W.;*

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**7 Byte synchronization system and method using an error-tolerant synchronization pat for the PR IV channel**
*Yasuda, T.; Blaum, M.; Tang, D.D.;*

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**8 Interleaving schemes for multidimensional cluster errors**

*Blaum, M.; Bruck, J.; Vardy, A.;*

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**9 Performance and error propagation of two DFE channels**

*Ashley, J.; Blaum, M.; Marcus, B.; Melas, C.M.;*

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**10 An improvement on constructions of t-EC/AUED codes**

*Katti, R.S.; Blaum, M.;*

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*Blaum, M.; Bruck, J.; Vardy, A.;*

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**12 Conservative arrays: multidimensional modulation codes for holographic recording**

*Vardy, A.; Blaum, M.; Siegel, P.H.; Sincerbox, G.T.;*

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**13 Delay-insensitive pipelined communication on parallel buses**

*Blaum, M.; Bruck, J.;*

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**14 EVENODD: an efficient scheme for tolerating double disk failures in RAID architecture**

*Blaum, M.; Brady, J.; Bruck, J.; Jai Menon;*

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**15 Analysis of coding schemes for modulation and error control**

*Abdel-Chaffar, K.A.S.; Blaum, M.; Weber, J.H.;*

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**16 A note on "A systematic (12,8) code for correcting single errors and detecting adjacent errors"**
*Blaum, M.; Bruck, J.; Tolhuizen, L.;*  
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*Blaum, M.; Bruck, J.;*  
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*Blaum, M.; Roth, R.M.;*  
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*Blaum, M.; Litsyn, S.; Buskens, V.; van Tilborg, H.C.A.;*  
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*Blaum, M.; Bruck, J.;*  
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*Bruck, J.; Blaum, M.;*  
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*Blaum, M.;*

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24 **A family of efficient burst-correcting array codes**

*Blaum, M.;*

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25 **Decoding the Golay code with Venn diagrams**

*Blaum, M.;* *Bruck, J.;*

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26 **Cross parity check convolutional codes**

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27 **On t-error correcting/all unidirectional error detecting codes**

*Blaum, M.;* *Van Tilborg, H.;*

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28 **On error-correcting balanced codes**

*van Tilborg, H.;* *Blaum, M.;*

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29 **Neural networks, error-correcting codes, and polynomials over the binary n-cube**

*Bruck, J.;* *Blaum, M.;*

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**31 Multiple burst-correcting array codes**

 Blaum, M.; Farrell, P.G.; van Tilborg, H.C.A.;  
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**33 Systematic unidirectional burst detecting codes**

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**34 Two-dimensional interleaving schemes with repetitions**

 Blaum, M.; Bruck, J.; Farrell, P.G.;  
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**35 Array codes for correction of criss-cross errors**

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**36 Performance And Error Propagation Of Decision Feedback Channels**

 Melas, C.M.; Ashley, J.; Blaum, M.; Marcus, B.;  
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**37 On optimal placements of processors in tori networks**

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 Parallel and Distributed Processing, 1996. Eighth IEEE Symposium on , 23-26 Oct. 1996  
 Pages:552 - 555

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38 **Asynchronous equalization in magnetic linear tape systems with the data set separation sequence (DSS)**

*Berman, D.; Melas, C.M.; Blaum, M.;*

Global Telecommunications Conference, 2003. GLOBECOM '03. IEEE , Volume: 7 , 1-5 Dec. 2003  
Pages:3909 - 3912 vol.7

[Abstract] [PDF Full-Text (282KB)] IEEE CNF

39 **Soft decoding of several classes of array codes**

*Blaum, M.; Fan, J.L.; Lihao Xu;*

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40 **Viterbi Detector Error Rate Analysis and Byte Synchronization System and Method Using an Error Correcting Code (ECC) For PR4 Channel**

*Yasuda, T.; Blaum, M.; Tang, D.D.;*

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Pages:208 - 208

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41 **Coding for skew correcting and detecting in parallel asynchronous communications**

*Blaum, M.; Bruck, J.;*

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42 **Enhanced decoding of interleaved error correcting codes**

*Blaum, M.; van Tilborg, H.C.A.;*

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*Blaum, M.; Bruck, J.; Vardy, A.;*

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44 **Delay-insensitive pipelined communication on parallel buses**

*Blaum, M.; Bruck, J.;*

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*Blaum, M.; Brady, J.; Bruck, J.; Menon, J.;*

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 Barrett, R.C.; Klaassen, E.H.; Albrecht, T.R.; Jaquette, G.A.; Eaton, J.H.;  
 Magnetics, IEEE Transactions on , Volume: 34 , Issue: 4 , July 1998  
 Pages:1872 - 1877

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**2 Timing-Based Track Following Servo for Tape**

 Albrecht, T.R.; Barrett, R.C.; Eaton, J.H.; Jaquette, G.A.;  
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*Siegel, P.; Marcus, B.;*

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*Marcus, B.;*

Information Theory, IEEE Transactions on , Volume: 31 , Issue: 3 , May 1985  
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#### 3 State splitting for variable-length graphs (Corresp.)

*Adler, R.; Friedman, J.; Kitchens, B.; Marcus, B.;*

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*Marcus, B.; Siegel, P.;*

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#### 5 Joint estimation of data and timing in the presence of inter-symbol interference

*Wilson, B.A.; New, R.; Campello, J.; Marcus, B.;*

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#### 6 Optimal block-type-decodable encoders for constrained systems

*Chaichanavong, P.; Marcus, B.H.;*

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[\[Abstract\]](#) [\[PDF Full-Text \(1402KB\)\]](#) IEEE JNL

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*Davison, M.; Anderson, C.L.; Marcus, B.; Anderson, K.;*

Power Systems, IEEE Transactions on , Volume: 17 , Issue: 2 , May 2002  
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**8 Constrained systems with unconstrained positions***Campello de Souza, J.; Marcus, B.H.; New, R.; Wilson, B.A.;*

Information Theory, IEEE Transactions on ,Volume: 48 , Issue: 4 , April 2002

Pages:866 - 879

[\[Abstract\]](#) [\[PDF Full-Text \(486KB\)\]](#) [IEEE JNL](#)**9 Maximum transition run codes for generalized partial response channels***Cideciyan, R.D.; Eleftheriou, E.; Marcus, B.H.; Modha, D.S.;*

Selected Areas in Communications, IEEE Journal on ,Volume: 19 , Issue: 4 , April 2001

Pages:619 - 634

[\[Abstract\]](#) [\[PDF Full-Text \(440KB\)\]](#) [IEEE JNL](#)**10 Art of constructing low-complexity encoders/decoders for constrained block codes***Modha, D.S.; Marcus, B.H.;*

Selected Areas in Communications, IEEE Journal on ,Volume: 19 , Issue: 4 , April 2001

Pages:589 - 601

[\[Abstract\]](#) [\[PDF Full-Text \(272KB\)\]](#) [IEEE JNL](#)**11 Lossless sliding-block compression of constrained systems***Fan, J.L.; Marcus, B.H.; Roth, R.M.;*

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Pages:624 - 633

[\[Abstract\]](#) [\[PDF Full-Text \(332KB\)\]](#) [IEEE JNL](#)**12 Time-varying encoders for constrained systems: an approach to limiting error propa***Ashley, J.J.; Marcus, B.H.;*

Information Theory, IEEE Transactions on ,Volume: 46 , Issue: 3 , May 2000

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[\[Abstract\]](#) [\[PDF Full-Text \(228KB\)\]](#) [IEEE JNL](#)**13 Two-dimensional low-pass filtering codes***Ashley, J.J.; Marcus, B.H.;*

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[\[Abstract\]](#) [\[PDF Full-Text \(96KB\)\]](#) [IEEE JNL](#)**14 Force feedback for surgical simulation***Chen, E.; Marcus, B.;*

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Ashley, J.; Blaum, M.; Marcus, B.; Melas, C.M.;  
Magnetics, IEEE Transactions on ,Volume: 33 , Issue: 5 , Sept. 1997  
Pages:2773 - 2775

[\[Abstract\]](#) [\[PDF Full-Text \(296KB\)\]](#) [IEEE JNL](#)**17 On the decoding delay of encoders for input-constrained channels**

Ashley, J.J.; Marcus, B.H.; Roth, R.M.;  
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[\[Abstract\]](#) [\[PDF Full-Text \(1000KB\)\]](#) [IEEE JNL](#)**18 Construction of encoders with small decoding look-ahead for input-constrained channels**

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[\[Abstract\]](#) [\[PDF Full-Text \(724KB\)\]](#) [IEEE JNL](#)**20 Large deviation theorems for empirical types of Markov chains constrained to thin sets**

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[\[Abstract\]](#) [\[PDF Full-Text \(1296KB\)\]](#) [IEEE JNL](#)**21 Improved Gilbert-Varshamov bound for constrained systems**

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2	BRS	L2	1094	(360/48).cccls.	USPAT	2004/07/ 20 11:17
3	BRS	L3	119	((360/48).cccls.) and (bit adj3 pattern)	USPAT	2004/07/ 20 13:24
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8	BRS	L12	54	((341/106).cccls.) and (bit adj3 pattern)	USPAT	2004/07/ 20 13:26
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10	BRS	L19	2	((375/263).cccls.) and (bit adj3 pattern)	USPAT	2004/07/ 20 13:27
11	BRS	L20	0	((375/266).cccls.) and (bit adj3 pattern)	USPAT	2004/07/ 20 13:27
12	BRS	L21	33	((375/355).cccls.) and (bit adj3 pattern)	USPAT	2004/07/ 20 15:04
13	BRS	L23	17	(16/17) near3 (code adj rate)	USPAT	2004/07/ 20 15:11

	<b>Typ e</b>	<b>L #</b>	<b>Hits</b>	<b>Search Text</b>	<b>DBs</b>	<b>Time Stamp</b>
14	BRS	L25	30	(m/n) near3 (code adj rate)	USPAT	2004/07/ 20 15:07
15	BRS	L27	10	(cod\$3 and decod\$3) near10 (bit adj pattern) near10 (medium or storage or tape or disk or disc)	USPAT	2004/07/ 20 15:10
16	BRS	L30	8	finite adj state adj code	USPAT	2004/07/ 20 15:10
17	BRS	L32	29	(8/9) near3 (code adj rate)	USPAT	2004/07/ 20 15:12
18	BRS	L34	0	(9/10) near3 (code adj rate)	USPAT	2004/07/ 20 15:19
19	BRS	L35	58	(cod\$3 and decod\$3) near10 (encod\$3 adj table)	USPAT	2004/07/ 20 15:20
20	BRS	L29	58	(cod\$3 and decod\$3) near10 (bit adj pattern) same (table)	USPAT	2004/07/ 20 15:18
21	BRS	L41	4	(cod\$3 and decod\$3) SAME (improv\$3 or optimiz\$3) SAME (tim\$3 adj recovery)	USPAT	2004/07/ 20 15:22

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2	BRS	13	("5291499" "5341387" "5521945" "5661760" "5757822" "5838738" "5999110" "6018304" "6021011" "6032284" "6115198" "6119265" "6185175").pn.	USPAT	2004/04/14 14:48
3	BRS	17	"751522" "764950" "9708836"	EPO; DERWENT	2004/04/14 14:52
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